

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	506	347/10.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/09 08:46
L2	192	347/10.ccls. and temperature	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/09 08:46
L3	145	347/10.ccls. and temperature and (piezo piezoelectric vibrat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/09 08:47

EAST Search History

L4	150	(US-5477245-\$ or US-6203132-\$ or US-5940098-\$ or US-6648442-\$ or US-5581281-\$ or US-5559535-\$ or US-5485179-\$ or US-6767080-\$ or US-5736995-\$ or US-5986684-\$ or US-5428376-\$ or US-5760797-\$ or US-4791435-\$ or US-5155503-\$ or US-6565177-\$ or US-6086180-\$ or US-5946007-\$ or US-5745130-\$ or US-5751304-\$ or US-5418558-\$ or US-5343231-\$ or US-6139125-\$ or US-5122816-\$ or US-6109718-\$ or US-6601936-\$ or US-6116710-\$), did. or (US-6447087-\$ or US-5300969-\$ or US-5877785-\$ or US-5576746-\$ or US-5736994-\$ or US-6719395-\$ or US-6168252-\$ or US-5838341-\$ or US-6227643-\$ or US-5300968-\$ or US-3914772-\$ or US-6211970-\$ or US-6312080-\$ or US-6116709-\$ or US-5745132-\$ or US-5838340-\$ or US-6601941-\$ or US-6102514-\$ or US-6517177-\$ or US-6406113-\$ or US-6132021-\$ or US-6505904-\$ or US-6302507-\$ or US-5940094-\$ or US-5851075-\$ or US-4947194-\$ or US-6109719-\$), did. or (US-5764246-\$ or US-6464318-\$ or US-5880751-\$ or US-5905511-\$ or US-6527355-\$ or US-6739685-\$ or US-6213579-\$ or US-6283650-\$ or US-5526027-\$ or US-4980699-\$ or US-6302509-\$ or US-6305776-\$ or US-6371589-\$ or US-6655772-\$ or US-6270180-\$ or US-5475405-\$ or US-5673071-\$ or US-6612673-\$ or US-5805177-\$ or US-5966149-\$ or US-6499821-\$ or US-5673069-\$ or US-4352114-\$ or US-5995067-\$ or US-6457797-\$ or US-5610638-\$ or US-6412925-\$), did. or (US-5734391-\$ or US-6247777-\$ or US-5980013-\$ or US-6406112-\$ or US-6428136-\$ or US-5774137-\$ or US-6422677-\$ or US-6776469-\$ or US-5881451-\$ or US-6648451-\$ or US-6278468-\$ or US-6145949-\$ or US-6050666-\$ or US-6474764-\$ or US-5969730-\$ or US-6547357-\$ or US-5861895-\$ or US-4400705-\$ or US-5502469-\$ or US-5264865-\$ or US-6585343-\$ or US-6547359-\$ or US-6575544-\$ or US-6471321-\$ or US-6390582-\$ or US-6598952-\$ or US-6578942-\$), did. or (US-4664542-\$ or US-6116712-\$ or US-6634731-\$ or US-6513895-\$ or US-5975669-\$ or US-4866376-\$ or US-6474767-\$ or	USPAT	OR	ON	2006/05/09 08:49
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EAST Search History

L5	150	(US-5477245-\$ or US-6203132-\$ or US-5940098-\$ or US-6648442-\$ or US-5581281-\$ or US-5559535-\$ or US-5485179-\$ or US-6767080-\$ or US-5736995-\$ or US-5986684-\$ or US-5428376-\$ or US-5760797-\$ or US-4791435-\$ or US-5155503-\$ or US-6565177-\$ or US-6086180-\$ or US-5946007-\$ or US-5745130-\$ or US-5751304-\$ or US-5418558-\$ or US-5343231-\$ or US-6139125-\$ or US-5122816-\$ or US-6109718-\$ or US-6601936-\$ or US-6116710-\$). did. or (US-6447087-\$ or US-5300969-\$ or US-5877785-\$ or US-5576746-\$ or US-5736994-\$ or US-6719395-\$ or US-6168252-\$ or US-5838341-\$ or US-6227643-\$ or US-5300968-\$ or US-3914772-\$ or US-6211970-\$ or US-6312080-\$ or US-6116709-\$ or US-5745132-\$ or US-5838340-\$ or US-6601941-\$ or US-6102514-\$ or US-6517177-\$ or US-6406113-\$ or US-6132021-\$ or US-6505904-\$ or US-6302507-\$ or US-5940094-\$ or US-5851075-\$ or US-4947194-\$ or US-6109719-\$). did. or (US-5764246-\$ or US-6464318-\$ or US-5880751-\$ or US-5905511-\$ or US-6527355-\$ or US-6739685-\$ or US-6213579-\$ or US-6283650-\$ or US-5526027-\$ or US-4980699-\$ or US-6302509-\$ or US-6305776-\$ or US-6371589-\$ or US-6655772-\$ or US-6270180-\$ or US-5475405-\$ or US-5673071-\$ or US-6612673-\$ or US-5805177-\$ or US-5966149-\$ or US-6499821-\$ or US-5673069-\$ or US-4352114-\$ or US-5995067-\$ or US-6457797-\$ or US-5610638-\$ or US-6412925-\$). did. or (US-5734391-\$ or US-6247777-\$ or US-5980013-\$ or US-6406112-\$ or US-6428136-\$ or US-5774137-\$ or US-6422677-\$ or US-6776469-\$ or US-5881451-\$ or US-6648451-\$ or US-6278468-\$ or US-6145949-\$ or US-6050666-\$ or US-6474764-\$ or US-5969730-\$ or US-6547357-\$ or US-5861895-\$ or US-4400705-\$ or US-5502469-\$ or US-5264865-\$ or US-6585343-\$ or US-6547359-\$ or US-6575544-\$ or US-6471321-\$ or US-6390582-\$ or US-6598952-\$ or US-6578942-\$). did. or (US-4664542-\$ or US-6116712-\$ or US-6634731-\$ or US-6513895-\$ or US-5975669-\$ or US-4866376-\$ or US-6474767-\$ or	USPAT	OR	ON	2006/05/09 08:50
5/9/2006 12:14:44 PM C:\Documents and Settings\Noda\My Documents\EAST\Workspaces\Noda - 10519876.wsp					Page 3	

EAST Search History

L6	50	5 and (piezo piezoelectric vibrat\$4) and (temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/09 08:50
L7	17	5 and (piezo piezoelectric vibrat\$4) and (temperature) and 347/10,11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/09 08:50
L8	43993	temperature same (voltage amplitude waveform potential)	EPO; JPO	OR	ON	2006/05/09 10:30
L9	31357	temperature with (voltage amplitude waveform potential)	EPO; JPO	OR	ON	2006/05/09 10:30
L10	7534	(high\$3 low\$3 increas\$4 decreas\$4) near3 temperature with (voltage amplitude waveform potential)	EPO; JPO	OR	ON	2006/05/09 10:30
L11	7437	(high\$3 low\$3 increas\$4 decreas\$4) near3 temperature with (voltage amplitude potential)	EPO; JPO	OR	ON	2006/05/09 10:30
L12	258	(high\$3 low\$3 increas\$4 decreas\$4) near3 temperature with (voltage amplitude potential) with difference	EPO; JPO	OR	ON	2006/05/09 10:30
L13	7	(high\$3 low\$3 increas\$4 decreas\$4) near3 temperature with (voltage amplitude potential) same meniscus	EPO; JPO	OR	ON	2006/05/09 10:43
L14	27	(high\$3 low\$3 increas\$4 decreas\$4) near3 temperature with (voltage amplitude potential) same (velocity)	EPO; JPO	OR	ON	2006/05/09 10:43
S1	1500	347/9,10,11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 11:38
S2	1140	347/14.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 11:39
S3	129	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 11:39
S4	64	(S1 and S2) and (piezo . piezoelectric)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 12:09
S5	62	tanaka.in. and "347"/\$.ccls. and seiko.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 11:57

EAST Search History

S6	0	S4 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 11:51
S7	0	("11268266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/08 11:57
S8	1	("11268266").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/05/08 11:58
S9	1	("11020164").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/05/08 11:58
S10	43	(S1 and S2) and (piezo piezoelectric) and temperature	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 12:14
S11	1	("6312076").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/08 12:24
S15	4	("6467865").URPN.	USPAT	OR	ON	2006/05/08 13:36
S16	10	("4176361" "5130726" "5581281" "5644341" "5739828" "5838350" "5877785" "6109715" "6109716" "6217159").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/08 13:39
S17	4456	347/9,10,11,14,19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 13:56
S18	17	347/9,10,11,14,19.ccls. and temperature same (potential adj difference)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 13:57
S19	1	("6203132").URPN.	USPAT	OR	ON	2006/05/08 14:11
S20	6	("4275402" "4686539" "4860034" "5264865" "5541628" "5610637").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/08 14:12
S21	43	("4860034").URPN.	USPAT	OR	ON	2006/05/08 15:27
S22	32	347/10,11.ccls. and (voltage amplitude potential) with (incras\$3 decreas\$3 lower\$3 rais\$3) with temperature	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 15:56
S23	1	("6502914").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/08 15:47

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S24	9	347/10,11.ccls. and (voltage amplitude potential) with (incras\$3 decreas\$3 lower\$3 rais\$3) with temperature and (contract\$4 with (eject\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 15:59
S25	14	"347"/\$.ccls. and (voltage amplitude potential) with (incras\$3 decreas\$3 lower\$3 rais\$3) with temperature and (contract\$4 with (eject\$4)) not S24	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:08
S26	4400	b41j002/45.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:08
S27	28	b41j002/45.ipc. and potential adj difference	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:10
S28	28	b41j002/45.ipc. and temperature with voltage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:12
S29	0	b41j002/45.ipc. and seiko.as. and noda.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:12
S30	3	b41j002/45.ipc. and noda.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:13
S31	506	347/10.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:13
S32	81	347/10.ccls. and temperature with (voltage potential amplitude)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:13
S33	62	347/10.ccls. and temperature with (voltage potential amplitude) and (piezo piezoelectric vibrat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:14
S34	554	"347"/\$.ccls. and (potential voltage amplitude) near3 (chang\$4 alter\$4 adjust\$4 compensat\$4 increas\$4 decreas\$4) with temperature	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:43

EAST Search History

S35	13	"347"/\$.ccls. and (potential voltage amplitude) near3 (chang\$4 alter\$4 adjust\$4 compensat\$4 increas\$4 decreas\$4) with temperature and (eject\$4 with contract\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/08 16:43
S36	1	("6203132").URPN.	USPAT	OR	ON	2006/05/08 17:33
S37	6	("4275402" "4686539" "4860034" "5264865" "5541628" "5610637").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/08 17:57
S38	17	"347"/\$.ccls. and (temperature with driv\$4).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/08 17:57
S39	2	"347"/10,11.ccls. and (temperature with driv\$4).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/08 17:57